NORTH CAROLINA LAPIDARY SOCIETY

September 1983



MEETINGS: SUNDAY
Third Thursday each month.
GEMCRAFTERS
2106 Patterson St.
Greensboro, NC 27407



MEETING DATE: September 18, 1983

TIME

: 2:30 PM

PLACE

: GEMCRAFTERS

2106 Patterson St. Greensboro, NC

PROGRAM

: BUSINESS MEETING

THIS WILL BE A VERY IMPORTANT MEETING TO

CHART THE FUTURE COURSE OF THE NORTH

CAROLINA LAPIDARY SOCIETY. PLEASE COME!

OFFICERS 1983

PRESIDENT :

VICE PRES. : DENNIS WALTERS

Rt. 3 University Estates Reidsville, NC 27320

SECRETARY : PAULINE E. KEENEY

1811 Alderman Dr. Greensboro, NC 27408

TREASURER : THOMAS J. RICKS

Rt. 3 Box 347

Liberty, NC 27298

MEMBERSHIP

SECRETARY : ELEANORE LARSON

2513 Celeste Dr.

Greensboro, NC 27407

BULLETIN

EDITOR : THOMAS J. RICKS

Rt. 3 Box 347

Liberty, NC 27298

EXECUTIVE BOARD meets at the call of the president.

MEMBERSHIP DUES : \$12.00 per year - prorated quarterly.

STONE CUTTER subscriptions: \$5.00 per year.

STONE CUTTER advertising rates: full page, \$40.00: half page \$20.00; quarter page, \$10.00.

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A DO IT YOURSELF PHYSICAL

Hold this rectangle close to your lips and blow on it.

If it turns GREEN, call your doctor.

If it turns BROWN, see your dentist.

If it turns PURPLE, see your psychiatrist.

If it turns RED, see your banker.

If it turns BLACK, call your lawyer and make awill.

If it REMAINS THE SAME COLOR, you are in good health and there is no good reason why you should not be at the Sepember 18th meeting of the NORTH CAROLINA LAPIDARY SOCIETY.

"12 BEST" OF 1982 ANNOUNCED AT NORTHWEST FACETERS' CONFERENCE

The "12 Best" of original new facet designs published during 1982 were presented as a part of the program of the Northwest Faceters' Conference May 28-29, 1983, in Portland, Oregon. The 12 designs, selected by a panel of nationally-known faceter/designers, were:

BALL OF FIRE -- Designer, Summer Olsen. Published in The Faceter's Gem, June 1982, p. 23.

CHINESE CHECKERS -- Designer, Ed Rieks. Published in Facets, March 1982, p. 3.

HELIENIC CUT -- Designer, John H. Cornwall. Published in the Lapidary Journal, July 1982, p. 694.

HEXAMEET CONVERTIBLE -- Designer, Norman W. Steele. Published in Facets, February 1982, p. 3.

IRRECULAR HEXAGON -- Designer, Merle A. Reinikka. Published in Facets, July 1982, p. 3.

MERIDIAN TRIANGLE -- Designer, Ed Rieks. Published in Facets, February 1982, p. 7.

RHOMBO-FAN #4 -- Designer, Paul C. Smith. Published in Stone Cutter, August 1982, p. 5.

SIRIUS CUT -- Designer, Paul C. Smith. Published in Stone Cutter, May 1982, p. 4.

SQUAROUND II -- Designer, Fred W. Van Sant. Published in Gems and Minerals, November 1982, p. 30.

STARIET -- Designer, Merle A. Reinikka. Published in Facets, January 1982, p. 9.

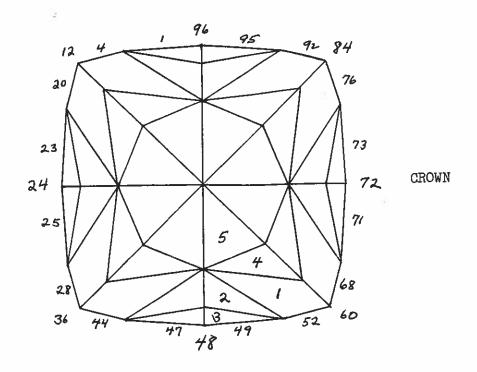
STARS-IN-MY-CROWN -- Designer, Don Olsen. Published in Facets, May 1982, p. 3.

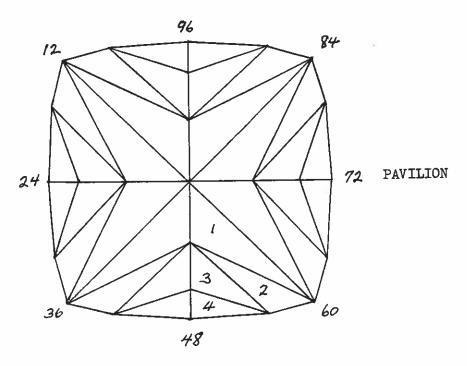
3M DESIGN -- Designer, Charles Hettich. Published in The Faceter's Gem, December 1982, p. 21.

KOKOMO CUSHION

by Paul C. Smith Indianapolis, IN

This cut is named in honor of the designer's home town of Kokomo, IN. Paul says, "I first cut this design in YAG and liked it so well I modified it for CZ. Hope you like it. The meets are a little sensitive to the stone proportions. They should be as exact as possible."





THE KOKOMO CUSHION

A little extra care in cutting the girdle outline to exact proportions will help in getting good meets with the pavilion facets.

Cut pavilion before crown.

56°

Use a 96 index gear.
Angles are for cubic zirconia.

GIRDLE

STEP	ANGLE	INDEX	REMARKS
1.	90°	95-1, 23-25,	47-49, 71-73 Cut to same stop and equal facets.
2.	90°	4-20, 28-44,	facets. As these facets are cut, the facets of Step 1 are reduced. Final size of Step 2 facets should be 0.6 of final size of Step 1 facets. Dimension across corners (index 12 and 60,36 and 84) should be 1.24 times dimension across index 96 and 48.

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4.

STEP	ANGLE	INDEX	REMARKS
1.	37.25°	4-20-28-44-52-68-76-92	Establish girdle width.
2.	39°	93-3, 21-27, 45-51, 69-75	
3.	52°	95-1, 23-25, 47-49, 71-73	
4.	30.5°	6-18-30-42-54-66-78-90	
5.	10 0	6-18-30-42-54-66-78-90	
PAVILION			
STEP	ANGLE	INDEX	REMARKS
1.	40°	8-16-32-40-56-64-80-88	Cut to meet in center.
2.	46.5°	92-4, 20-28, 44-52, 68-76	
3.	48°	93-3, 21-27, 45-51, 69-75	

95-1, 23-25, 47-49, 71-73

PRECIOUS STONE RECORDS

from FULTON COUNTY ROCK HOUNDERS via THE LITHNICS

MOST PRECIOUS - A flawless natural ruby of good color was carat for carat more valuable than emerald, diamond an sapphire and, in the case of a 6-carat ruby, brought \$30,000.

LARGEST - The largest recorded stone of gen quality was a 520,000 carat (229 lb.) aquamarine found near Marambaia, Brazil, in 1910. It yielded over 200,000 carats of gem quality stones.

<u>NAREST</u> - Only two stones are known of the pale mauve gem, Taaffeite, first discovered in a cut state in Dublin, Ireland, in November, 1945. The larger of the two examples weighed 0.84 of a carat.

HARDEST - The hardest of all gems, and the hardest known naturally occurring substance is diamond, which is, chemically, pure carbon. Diamond is 90 times as hard as the next hardest mineral, corundum.

DENSEST GET MINUTAL - The densest of all gem inerals is stibotantalite, a rare, brown-ish-yellow mineral found in San Diego County, California, with a density of 7.46 grams per c.c.

DIAMONDS - The largest diamond ever discovered was a stone of 3.106 metric carats (over 1th lbs.) found by Captain M. F. Wells in the Premier Mine, Pretoria, South Africa, on January 26, 1905. Cut from this diamond is the largest cut diamond in the world. The Star of Africa No.1 with 74 facets and weight of 530.2 metric carats.

The rarest colored diamonds are blue and pink. The largest known blue diamond is the Hope Diamond (112) carate); the largest known pink diamond is a 24-carat with an estimated worth of 01,250,000.

<u>MATRALDS</u> - Of gem quality emeralds, the largest known is the Devonshire stone of 1,350 carats from Muso, Colombia.

SAPPHLUTS - The largest cut gem sapphire in existence is the "Black Star Sapphire of Queensland", weighing 1,444 carats, carved in 1954-55 from a rough stone of 2,097 carats.

RUBY - The largest natural gem stone known was a 1, 184 carats stone of Burmese origin.

SILVIR - The largest silver nugget ever recorded was one of 2,750 lbs. found in Sonora, Mexico.

reprinted from OSAGE HILLS GEMS, Aug. '83.

A SUGGESTION

from Charles Eckhardt, Versailles, MO.

On using bone for scrimshaw work as mentioned on page 7 of the August '83 STONE CUTTER, I have found that trying to fill an exching with India ink on "raw" bone will lead to smearing and either a lost effort or a lot of work sanding and buffing.

The solution to this problem is to soak the bone in melted parafin prior to etching the design. This will prevent the India ink from being absorbed except in the lines of the etching which have been cut through the parafin.

Makes a lot of sense to me. Some of you scrinshanders please let us know your experience. TJR.

THE MOO

Designed & Cut by Dave Miller

3118 Cherokee Flint, MI 48507

INDEX

95 - 1, 11 - 13, 23 - 25, 34 - 36,

47-49, 59-61, 71-73, 83-85.

94 - 2, 10 - 14, 22 - 26, 34 - 38, 46-50, 58-62, 70-74, 82-86.

6-18-30-42-54-66-78-90

and 66° proceed

MAKE YOUR PREFORM AND DOME YOUR CROWN_

ANGLE

42°

44°

45°

Cut with the Sapphire Faceting Unit & Ceramic Polishing Lap. All 17 round faceted areas in Crown including the table are made up of 8 pie shaped facets. The Pavilion was cut first and then the high domed Crown.

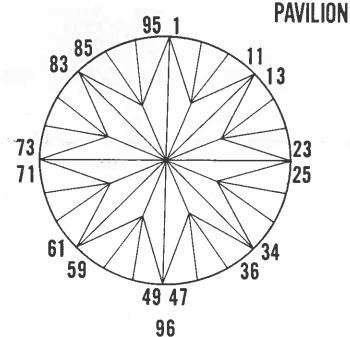
Made of Synthetic Ruby Diameter: 22.5 mm

Diameter of Table: 8.5 mm Total Depth: 19.7 mm Weight: 73.7 Carats

Split Mains:

Split Girdles:

To get the individual pie shaped faceted areas in each



of the Crow		of angle 37° and 66°	o proce
CR - Con	pound Right 1/2°	· CL - Compound Lef	t 1/2°
	L	lp & Down with Vertica	al l
	CR CL	Height Adjustment	
Step 1	Ste	ap 2	
Step 3	Ste	ap 4	
MATRI	Up & C.R.	Down & C.L.	

8	De	X	Z (12
12				24
	7		X	

CROWN

Down & C.R.

ANGLE	INDEX	
the	th the use of the 45° adaptor cut & polish Table, pie shaped Facets, by compound- to the left & right 1/2° and by using the vertical height adjustment.	
37°	96 - 12 - 24 - 36 - 48 - 60 - 72 - 84	
66°	6-18-30-42-54-66-78-90	

ADAM J. GRZYB 6852 Jonquil Terr. Niles, IL 60648

N. C. LAPIDARY SOCIETY
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